



SWS Computersysteme AG





Agenda

- Zero Trust und Netzwerksegmentierung
- Cisco Identity Services Engine (ISE)
- Cisco Identity Services Engine (ISE) Demo
- Cisco Secure Access by DUO
- Cisco Secure Access by DUO Demo
- Q&A





Traditional Network Segmentation Techniques

- 1 VLAN
- 2 Access List
- 3 Routers

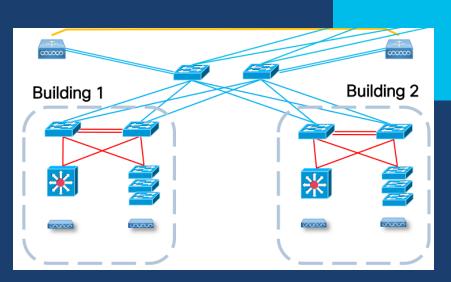


The Challenges

1 Not scalable

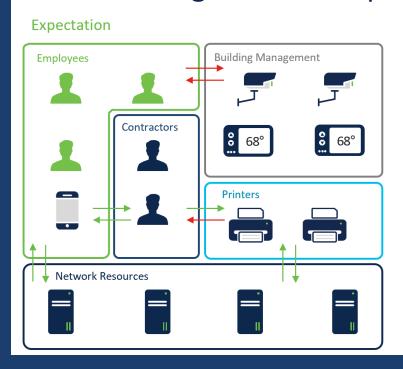
2 Tedious to manage

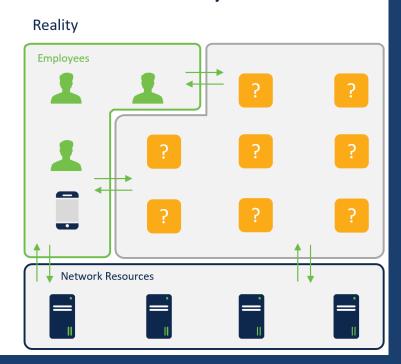
3 Large access lists





Least Privilege Access: Expectation vs. Reality







Cisco Secure Zero Trust

A comprehensive approach to securing all access across your networks, applications, and environment.



Workforce

Ensure only the right users and secure devices can access applications.



Workloads

Secure all connections within your apps, across multi-cloud.



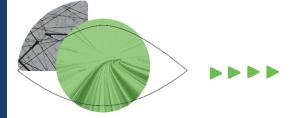
Workplace

Secure all user and device connections across your network, including IoT.



The Foundations of Zero Trust in Your Workplace

Visibility



Grant the right level of network access to users across domains

Segmentation



Shrink zones of trust and grant access based on least privilege

Containment



Automate containment of infected endpoints and revoke network access



Zero Trust für Workforce und Workplace

- Cisco Identity Services Engine
- Cisco Secure Access by DUO





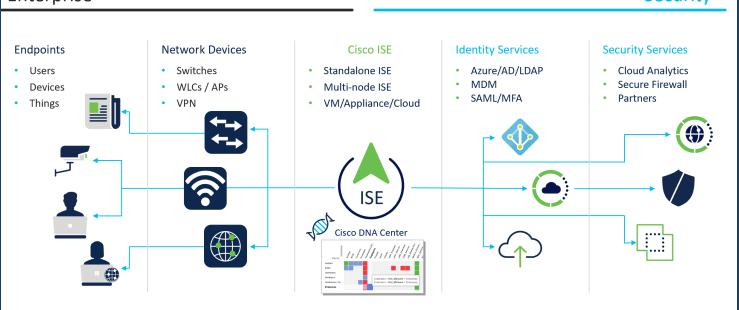
Agenda

- Zero Trust und Netzwerksegmentierung
- Cisco Identity Services Engine (ISE)
- Cisco Identity Services Engine (ISE) Demo
- Cisco Secure Access by DUO
- Cisco Secure Access by DUO Demo
- Q&A



ISE Provides Zero Trust for the Workplace

Enterprise Security



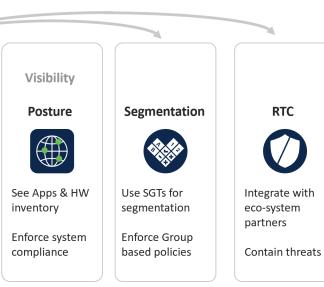


A Typical Customer Journey

Not a standard or recommended approach Each use case may be the end goal

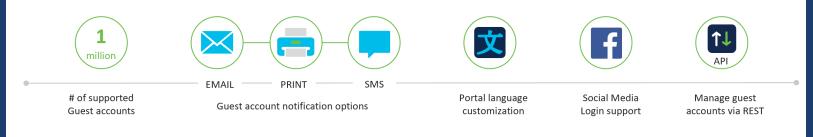








Guest Solution Overview



The 3 types of guest access

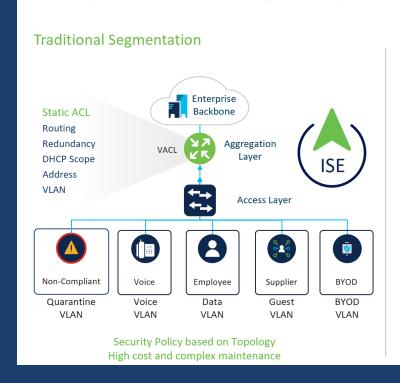


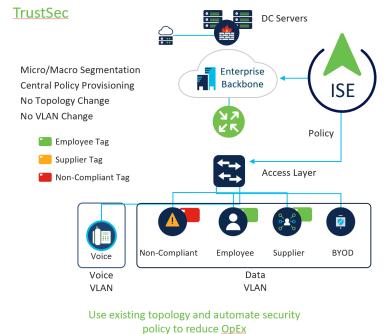


Authorized sponsors create account and share credentials

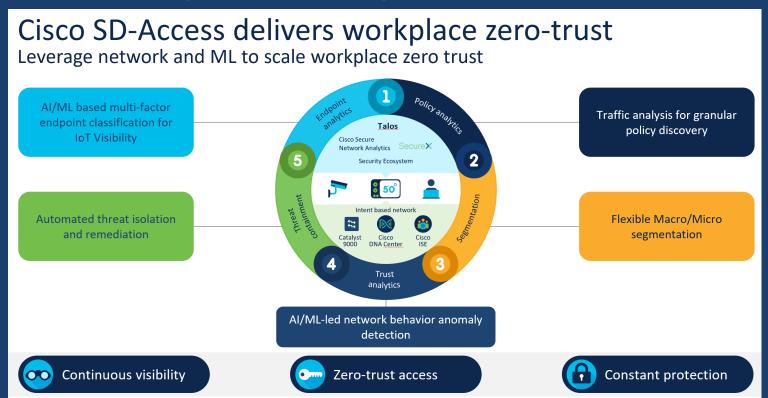


Group Based Policy Simplifies Segmentation



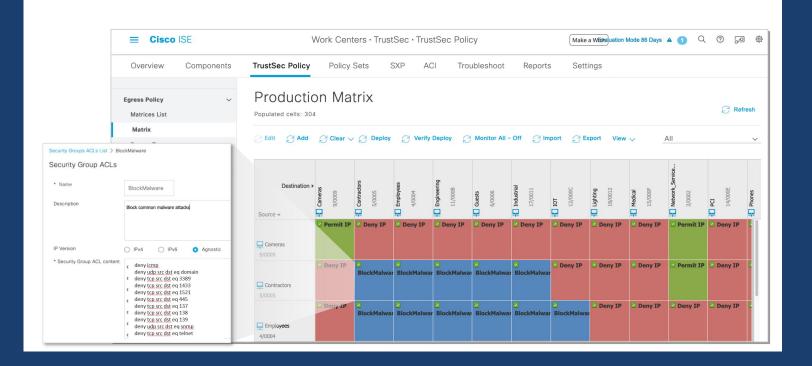






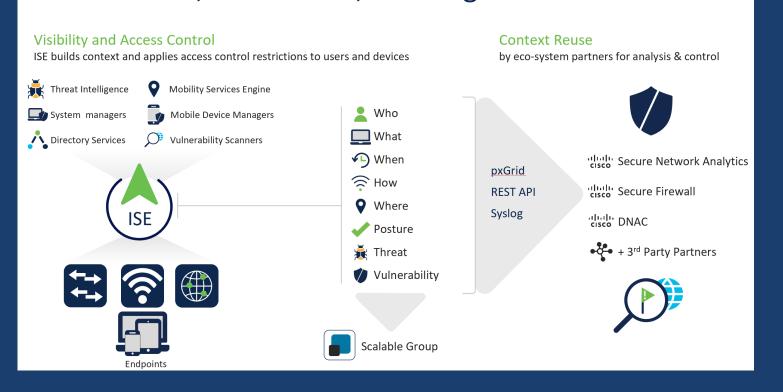


Non-Fabric Group-Based Policy Enforcement





Context Build, Summarize, Exchange





Context Sharing with pxGrid

Eco system partnership to enrich, exchange context and enact



Cisco ISE Eco-Partner

CONTEXT

ISE makes Customer
IT Platforms User/Identity,
Device and Network Aware

Enrich ISE Context

Cisco ISE Eco-Partner

CONTEXT

Enrich ISE context. Make ISE a better Policy Enforcement Platform

Threat Mitigation



Enforce dynamic policies into the network based on Partner's request

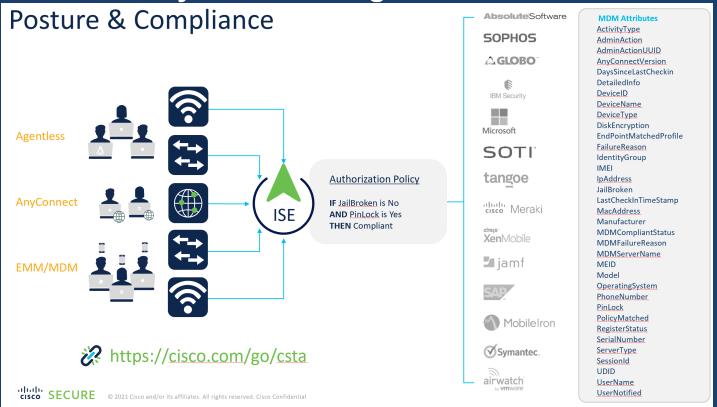
Context Brokerage



ISE 2.2+

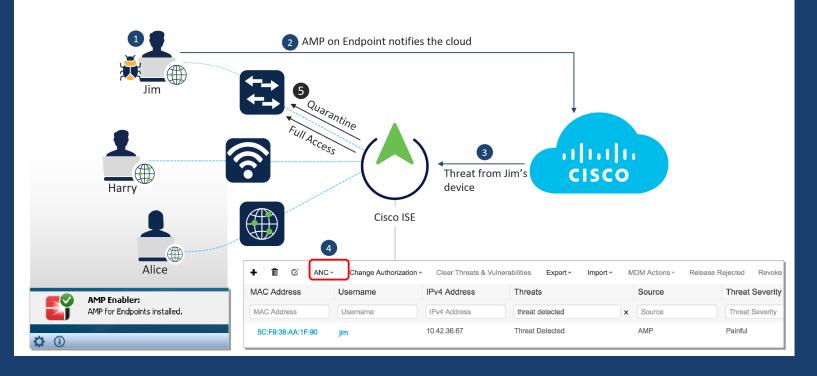
ISE brokers Customer's IT platforms to share data amongst themselves





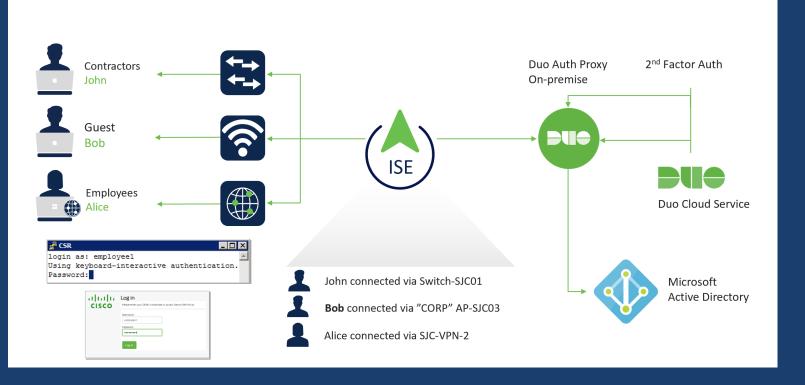


Threat Visibility Rapid Threat Containment (RTC)





ISE and Duo Integration for MFA





Agenda

- Zero Trust und Netzwerksegmentierung
- Cisco Identity Services Engine (ISE)
- Cisco Identity Services Engine (ISE) Demo
- Cisco Secure Access by DUO
- Cisco Secure Access by DUO Demo
- Q&A



Agenda

- Zero Trust und Netzwerksegmentierung
- Cisco Identity Services Engine (ISE)
- Cisco Identity Services Engine (ISE) Demo
- Cisco Secure Access by DUO
- Cisco Secure Access by DUO Demo
- Q&A



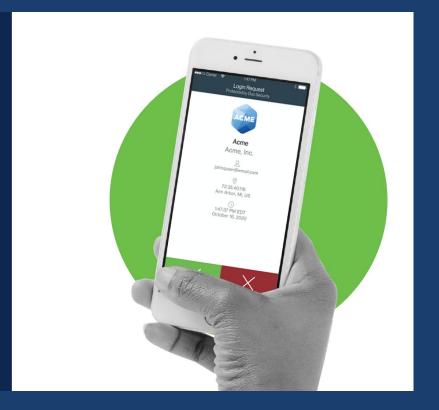
Secure Any Corporate Application





World's Easiest and Most Secure MFA

- Instantly integrates with all apps
- Users self-enroll in minutes
- Users authenticate in seconds;
 no codes to enter





Broadest Range of Multi-Factor Authentication (MFA) Options

- Configure authentication options for each application or group of users
- Enable multiple option for users for ease of use and flexibility





Duo Supports Your Work Applications

Start Here Then Expand Email/MSFT **VPN RA** On-Prem SSO Multicloud Custom .1|1.1|1. Microsoft Azure **REST** Google Office 365 **Epic** CISCO. **APIS** ORACLE. Outlook JUNIPEr. salesforce AD FS **WEB SDK** PEOPLESOFT **vm**ware **Microsoft CİTR**İX aws **RADIUS** okta Horizon View Remote Desktop Services > SSH paloalto & Centrify ∙ SAML **box** ■ Windows Server Shibboleth. onelogin **Dropbox** RRAS OIDC **S** Pulse Secure



Device Trust

Assess the health and security posture of any device





Improve Device Trust with Duo



Complete Visibility

Gain complete visibility into all laptops and mobile devices using native device visibility.



Assess Security Posture

Easily identify device security posture, and if they are managed or not based on enrollment in MDMs/EMMs.



Continuous Inspection

Continuously monitor if devices are infected with malware by using solutions such as AMP to prevent them from reaching sensitive apps.



Assess Security Posture

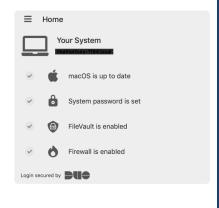
Easily identify device security posture.

- Is it managed?
- Is it running up to date software?
- Is it encrypted?
- Is it passcode protected?
- Is the firewall enabled?
- Is biometric enabled?

Duo Mobile App



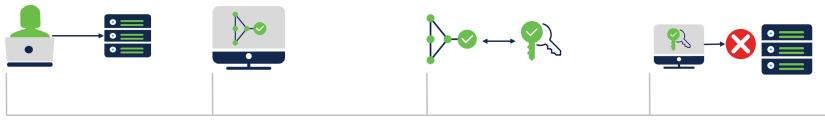
Duo Device Health App





Continuous Inspection

Duo and Secure Endpoint work together to provide stronger access security



Users use their devices to access application

Cisco Secure Endpoint running on the device detected malware

Cisco Secure Endpoint notifies Duo about the infected device Duo blocks that device from accessing apps



Feature Highlights



Duo MFA

- Multi-Factor Authentication
- Single Sign-On (SSO)
- Protect Any Application
- Protect Federated Cloud Apps



Duo Access

- Duo MFA +
- Adaptive Groups Based Policy Controls
- User Based Policy
- Device Visibility
- Device Health Checks
- Device Based Policy



Duo Beyond

- Duo MFA and Access +
- 3rd Party Agent Verification
- Trusted Endpoints
- Secure Remote Access
- Duo Mobile as Trusted



Agenda

- Zero Trust und Netzwerksegmentierung
- Cisco Identity Services Engine (ISE)
- Cisco Identity Services Engine (ISE) Demo
- Cisco Secure Access by DUO
- Cisco Secure Access by DUO Demo
- Q&A



Vielen Dank für Ihre Aufmerksamkeit.

Fragen?

